



SUKUNA SECONDARY SCHOOL

Sundarharaincha-10, Morang

FINAL EXAMINATION-2080

Class: XI[Science]

Full Mark: 75

Subject: Physics (1011)

Time: 3 Hours

Candidates are required to give their answers in their own words as far as practicable. The figures in the margins indicate full marks.

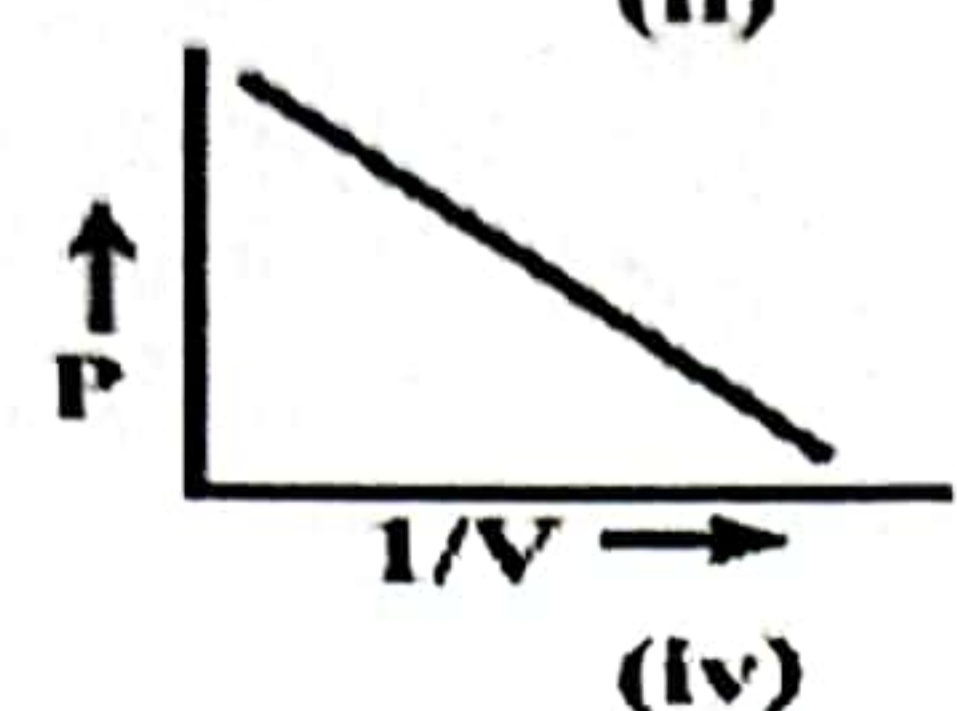
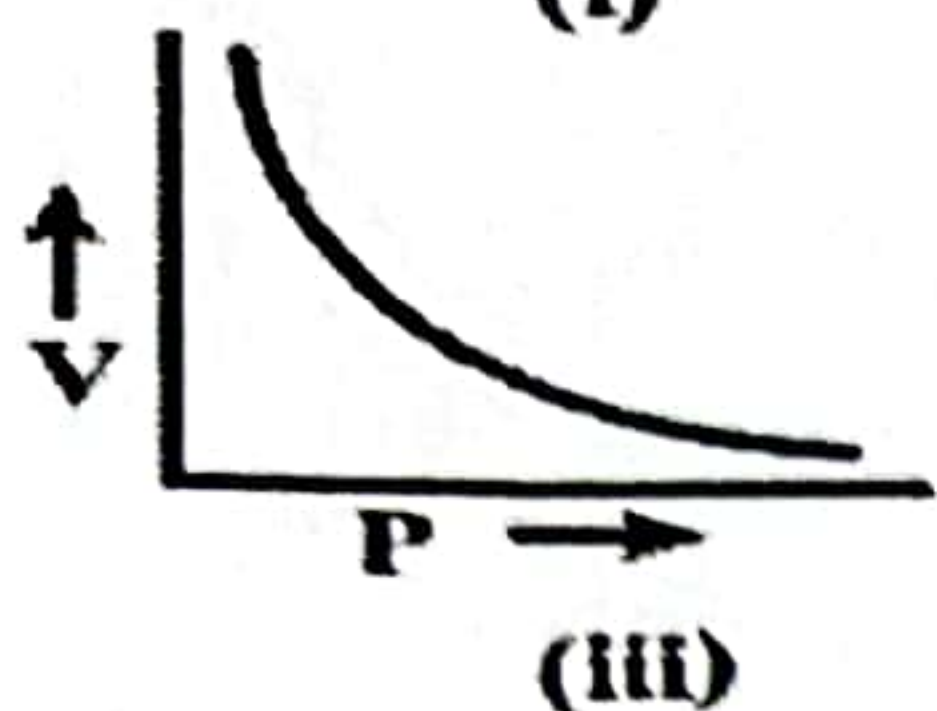
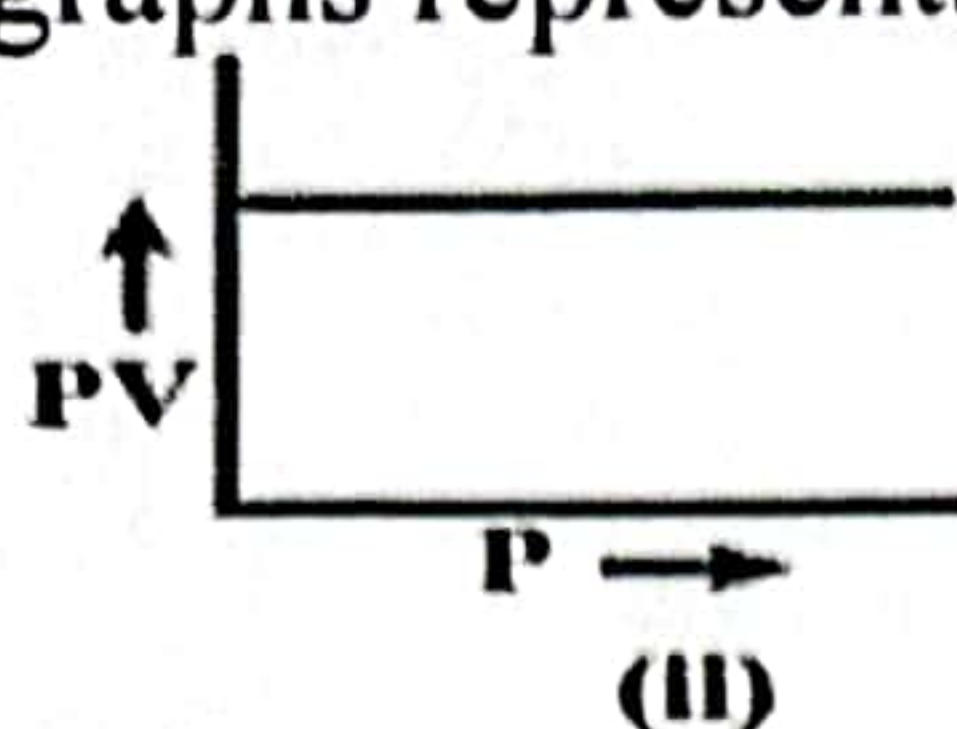
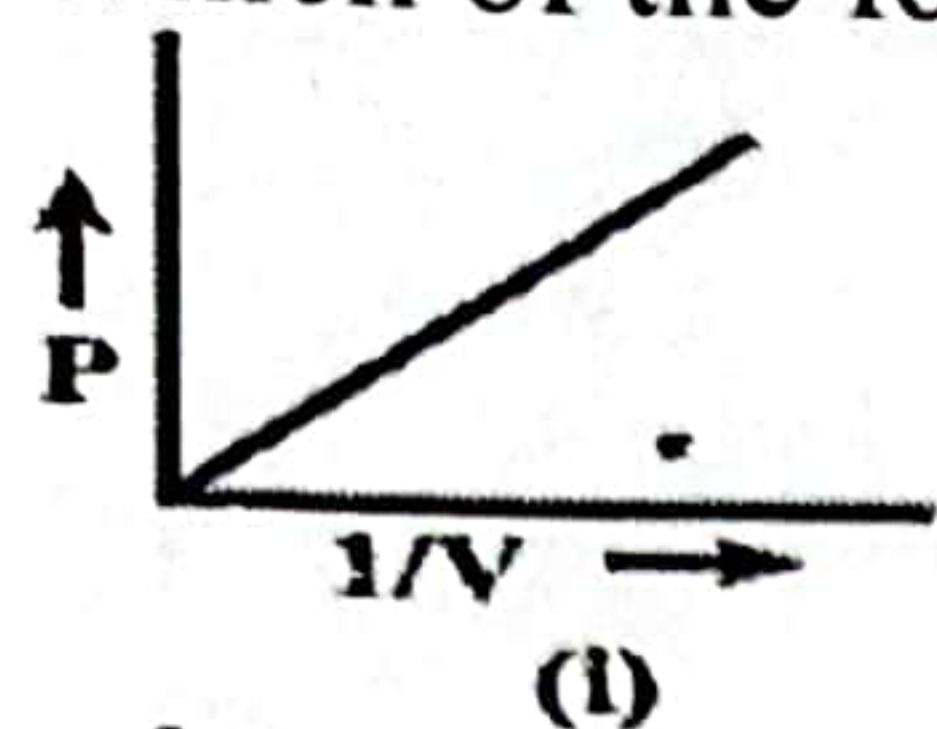
Group 'A'

[11×1=11]

Rewrite the correct options of each questions in your answer sheet.

- Which of the following is dimensionless quantity?
 - frequency
 - power of lens
 - strain
 - all of above
- Dot or Scalar product of the vectors $A=2i-3j+3K$ and $B=2j+2K$ is
 - Zero
 - 6
 - 12
 - 13
- The maximum value of static friction when the body is at the verge of starting motion is known as
 - Static friction *no relative motion*
 - Limiting friction
 - Dynamic friction *relative motion*
 - Angle of repose
- A man pushes a wall but fails to displace it is...
 - positive work
 - negative work
 - no work at all
 - non
- An ant moves towards the plane mirror with speed if 2 m/s. What is the relative velocity between the ant and its image?
 - 6 m/s
 - 2 m/s
 - 8m/s
 - 4 m/s
- The temperature of a body increases by $50^{\circ}C$, then the increase in temperature in absolute scale will be
 - 60K
 - 55K
 - 50K
 - 45K
- When heat is transferred from hot body to cold body, in a straight line, without affecting the intervening medium, it is referred as heat transfer by
 - conduction
 - convection
 - radiation
 - conduction and radiation

8. Which of the following graphs represents the correct Boyle's law?



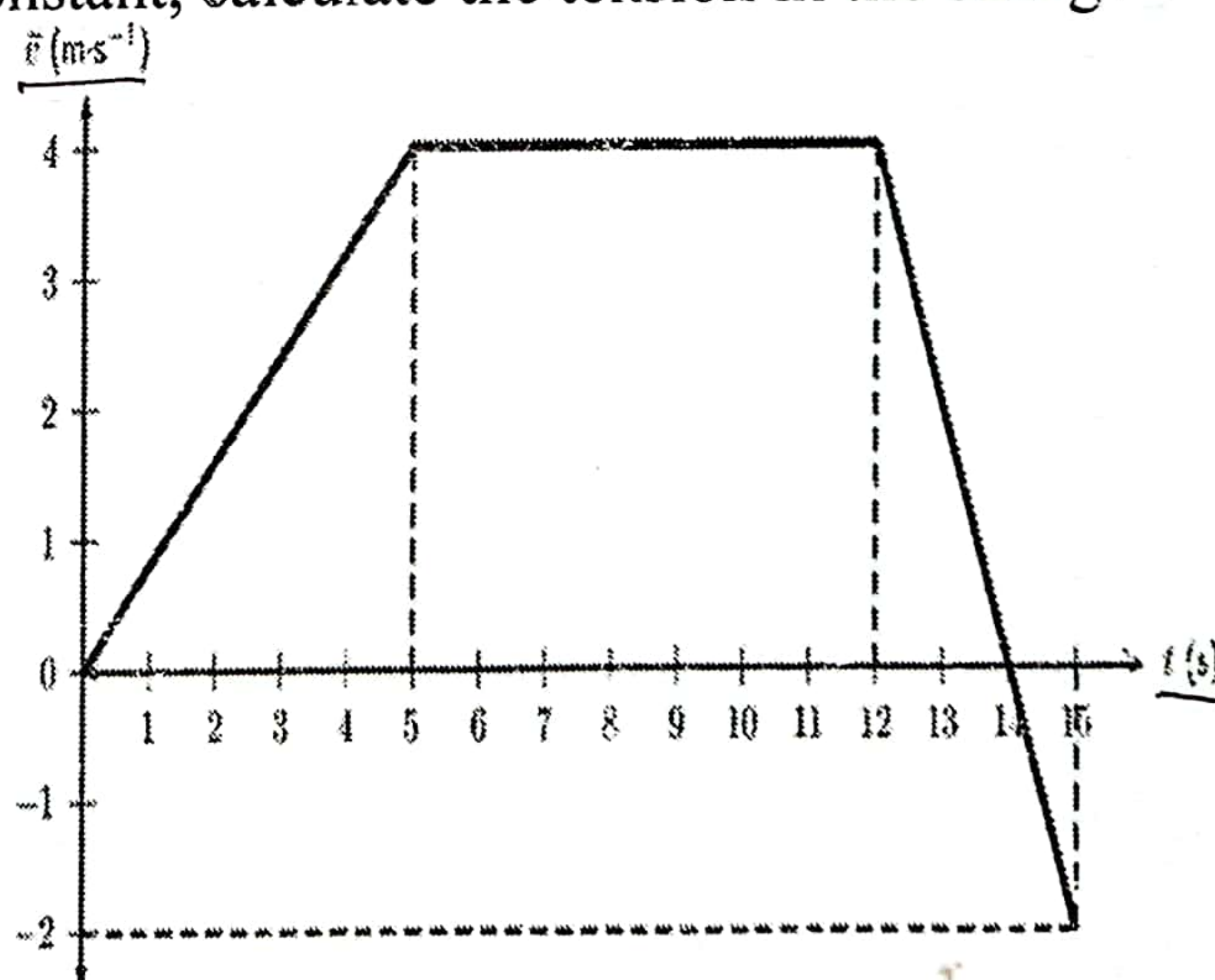
- a) i
b) ii
c) iii
c) iv
9. 1 C charge contains the following number of electrons.
a) 1.6×10^{-17}
b) 1.6×10^{-18}
c) 1.6×10^{-19}
d) 1.6×10^{-20}
10. Holes are majority charge carriers in
a) N-type semiconductor
b) Mixed type semiconductor
c) P-type semiconductor
d) All of the above
11. Which is the particle-antiparticle pair?
a) electron and proton
b) electron and positron
c) proton and neutron
d) electron and neutron

Group "B"

[8×5=40]

12. a) Define centripetal force. 1
b) What is the role of frictional force between the road and tyre of a vehicle while taking turn? What happens if there is no frictional force? 1+1
c) A mass of 1 kg is attached to the lower end of a string 1 m long whose upper end is fixed. The mass is made to rotate in a horizontal circle of radius 60 cm. If the circular speed of the mass is constant, calculate the tension in the string. 2

13. The velocity-time graph of a truck is plotted as shown. Calculate i) Total distance covered by the truck after 15 s. 2
ii) The total displacement of the truck after 15 s. 1
iii) Acceleration of the truck at 10th second. 1
iv) Explain the motion of the truck at exactly 14th second. 1

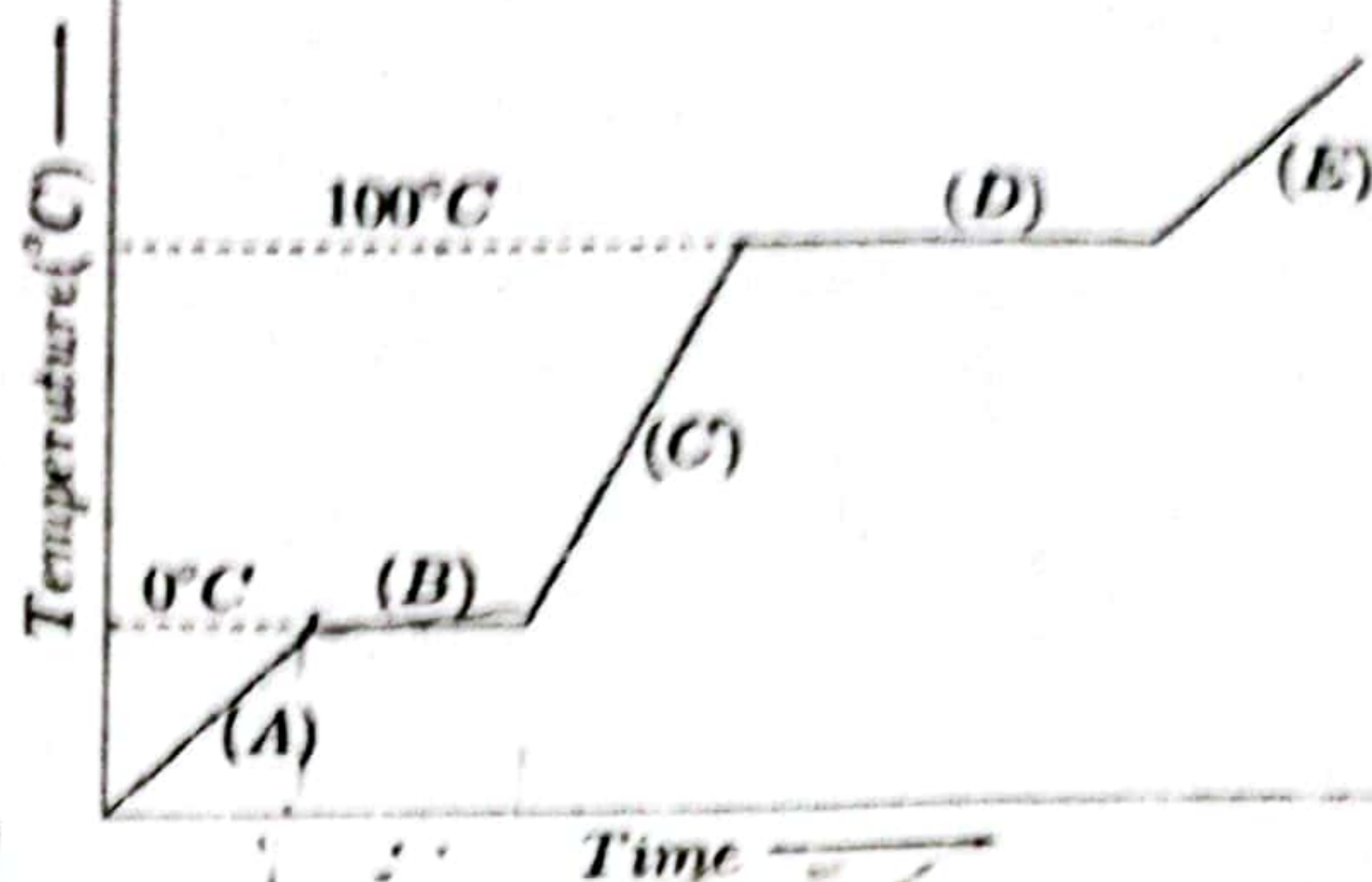


$$\frac{v - u}{t}$$

14. a) What do you mean by thermal expansion? Write down one application of it. 2
 b) Define the coefficient of the linear expansion with its expression. 1
 c) A steel rod of original length 55 cm at temperature 20°C is heated to 80°C . Calculate the total length of the rod at temperature 80°C . (The coef. of linear expansion of the steel = $12 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$) 2

or

a) The diagram below shows the change of phases of water on a temperature-time graph. Now, answer the followings,



i) What do the parts B and C represent?

ii) What is the meaning of the horizontal part D?

ii) If $D = 2B$, what do you infer? 1+1+1

b) How much amount of heat is required to convert 5 Kg of water at 50°C into steam at 100°C ? [Specific heat of water = $4200 \text{ J Kg}^{-1} \text{ }^{\circ}\text{C}^{-1}$ and Latent heat of evaporation of water = $2.26 \times 10^6 \text{ J Kg}^{-1}$] 2

15. a) Write down the relation between angle of prism, angle of minimum deviation and the refractive index for a prism. 1

b) Under what condition, a glass prism becomes the small angled prism? 1

c) A narrow beam of light incident normally on one face of an equilateral prism (refractive index 1.5) being surrounded by water (refractive index 1.44). 3

At what angle the ray of light emerges out?

18. a) What do you mean by chromatic aberration of light? 1

b) Derive the required condition for the achromatism. 3

c) Does the dispersion take place when monochromatic light is passed through the glass prism? 1

16. a) What do you mean by the quantization of charge? 1

b) Is there difference between the electric charge and the electric current? 1

c) How do you charge a metallic body positively by electrostatic induction method? Explain. 3

17. a) Define one electron volt (1eV). 1

b) No work is done in moving a test charge over an equipotential surface, why? 2

c) A charged oil drop remains stationary when situated between two parallel horizontal metal plates 25 mm apart and a p.d. of 1000 V is applied to the plates. Find the charge on the drop if it has a mass of $5 \times 10^{-15} \text{ Kg}$. (Assume $g = 10 \text{ m/s}^2$) 2

or

a) Derive an expression for the equivalent capacitance of the capacitors connected in parallel. 3

b) Write down one use of capacitor. 1

- c) What do you mean by the polar dielectric molecule? 1
19. a) Define nuclear fission with one suitable nuclear reaction. 1
- b) Mention one use of nuclear fission. 1
- c) Calculate the binding energy per nucleon for a Helium nucleus. Given that mass of helium nucleus = 4.001509 amu, mass of proton = 1.007277 amu and mass of neutron = 1.008666 amu. 3

Group "C"

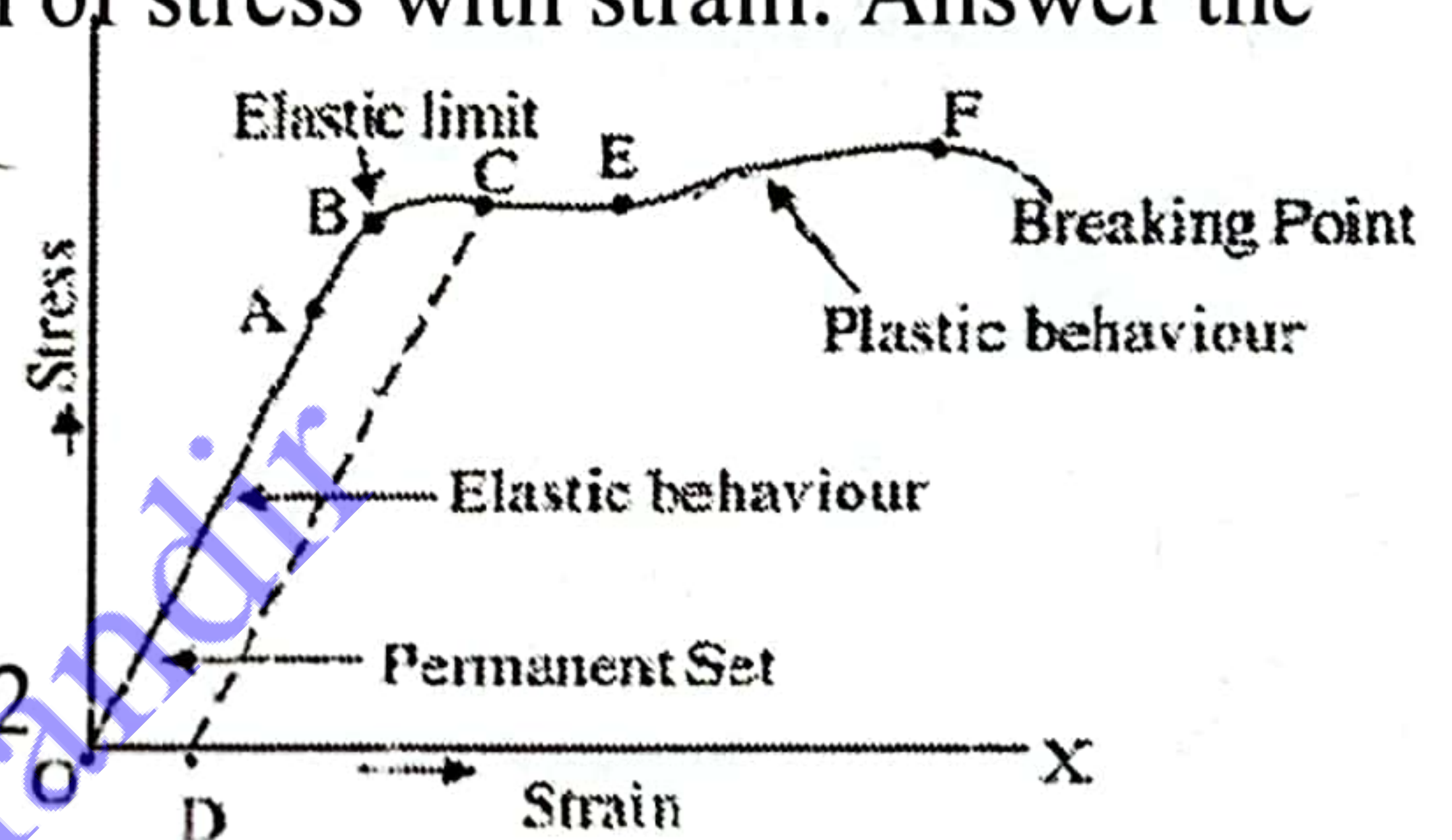
[8×3=24]

20. a) What do you mean by satellite? 1
- b) Derive an expression for orbital velocity of satellite. 3
- c) Write one use of artificial satellite. 1
- d) An artificial satellite revolves around the earth at a distance of 34,000 km. Calculate the period of revolution. (Given, radius of earth = 6400 km and $g=9.8 \text{ m/s}^2$) 3

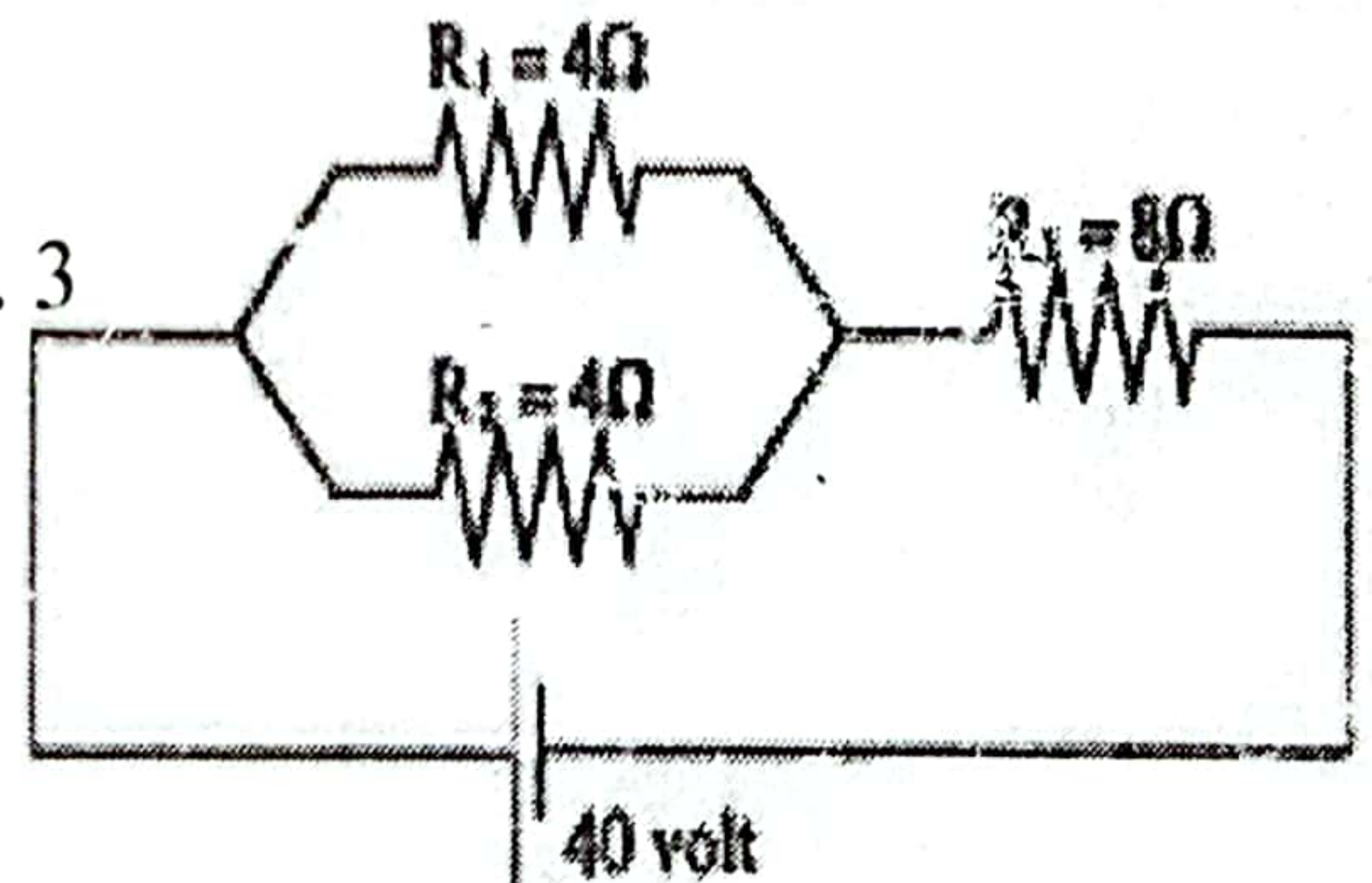
Or

- a) The following figure shows the variation of stress with strain. Answer the followings, 1+1+1

- i) Which section of the graph shows the Hook's law?
- ii) What is plastic behaviour there?
- iii) Explain the term Breaking Point?
- b) Which is more elastic a rubber or steel? 2
- c) A wire 2 m long and cross-sectional area 10^{-6} m^2 is stretched 1 mm by a force of 50 N in the elastic region. Calculate the Young's modulus and the energy stored in the wire. 3



23. a) What do you mean by D.C. current? 1+1
- Write down one application of it. 1+1
- b) Derive an expression for the drift velocity. 3
- c) In the given circuit, calculate the current flowing and the voltage dropped across 8Ω . 3



21. a) Write down the two postulates of kinetic theory of gases. 1
- b) Derive the ideal gas equation by using Charles law and Boyles law for n mole of gas. 3
- c) Write down the relation between the rms speed of gas molecule and temperature. 1
- d) Find the number of molecules and the number of moles in one cubic meter of air at 1 atmospheric pressure and 0°C . [$R = 8.31 \text{ J mol}^{-1} \text{ K}^{-1}$] 3

"GOOD LUCK"

11. Which of the following is radioactive isotope of Hydrogen?

a. Protium

b. Deuterium

c. Tritium

d. All

Group-B

Short answers questions

[8×5=40]

12. Alkenes and alkynes are homologous series of unsaturated hydrocarbons.

All alkenes contain a C=C double bond.

a. Complete table showing information about the first three alkenes. 2

Formula	C ₂ H ₄	C ₃ H ₆	
Structure	H ₂ C=CH ₂	H ₂ C=CH-CH ₃	—
IUPAC Name			But-1-ene

b. Write first four members of homologous series of aldehyde. 2

c. Write the functional group of carboxylic acid and ester. 1

13. Ionization energy of element decreased on moving down in the group of periodic table.

a. Define ionization energy. 1

b. Compare the ionization potential of Be and B. 2

c. Ionization energy of inert gas is very high but electron affinity is zero. Why? 2

14. Sodium is one of the important alkali metal used in laboratory.

a. Sketch a well-labelled diagram of Down's cell for the manufacture of sodium. 2

b. Why is sodium metal kept in kerosene? 1

c. Why is sodium fire not extinguished by adding water? 2

OR

Graphite is one of the allotrope of carbon and is used to make lead of pencil, brushes in electric motors and furnace linings

a. Name the latest discovered allotrope of carbon. 1

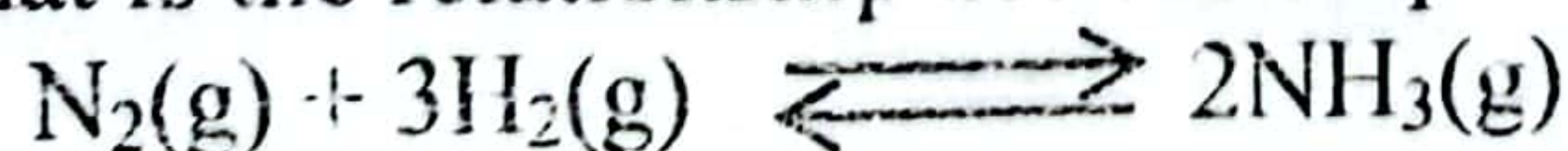
b. Give balanced chemical equation for the preparation of CO from Oxalic acid. 2

c. Carbon monoxide is extremely poisonous. Why? 2

15. a. Derive the relationship between K_p and K_c. 3

b. Define equilibrium constant(K_c). 1

c. What is the relationship between K_p and K_c for the following reaction? 1



16. You are given, $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$

If 10g of pure CaCO_3 is added in a solution containing 8g of HCl .

- Find the limiting reactant. 1
- Calculate the number of mole of excess reagent left over. 1
- Calculate the volume of CO_2 gas produced at NTP. 1
- Calculate the mass of NaOH required to absorb whole CO_2 formed in the reaction. 2

17. Redox reactions are used in the process of electroplating by applying a thin coating of a meterial on a object.



- Balance the above redox reaction by oxidation number method or ion-electron method. 3
- Point out oxidant and reductant in the above redox reaction. 1
- Define oxidation number. 1

18. Dipole moment is the degree of polarity of a bond and polar molecule.

- Define dipole moment. 1
- What is the unit of dipole moment? 1
- Dipole moment value for CH_4 molecule is zero. Explain. 2
- Write the Lewis Dot structure of SO_4^{2-} . 1

OR

Oxygen is the third abundusnt element by mass which is readily forms oxides with other elements. Some oxides are given below.

Na_2O	SnO_2	Fe_2O_3	H_2O_2
-----------------------	----------------	-------------------------	------------------------

- Identify the oxide from the above table. 2
- How is CFC responsible for the depletion of ozone layer? 2
- Which isotope of hydrogen is called radioactive isotope? 1

19. Write an example of

- Decarboxylation reaction
- Wurtz synthesis
- Ozonolysis
- Markovnikov's addition Reaction
- Halogenation Reaction

Group-C

Long answer questions

[3×8 =24]

20. Different spectral lines in hydrogen spectrum are formed due to the jump of electrons from higher energy levels to lower energy levels.

- | | |
|--|---|
| a. What do you mean by Lyman series? | 1 |
| b. Which series of spectral lines fall in visible region? | 1 |
| c. How many spectral lines in Balmer series are obtained when electron drop from fifth energy level? | 1 |
| d. Draw the spectral line of hydrogen. | 2 |
| e. Write all possible quantum number of outermost electron of Sodium. | 2 |
| f. Define pauli's exclusion principle. | 1 |

OR

Gases which obey the gas laws under all conditions of temperature and pressure are called ideal gases. Actually, no gas is an ideal gas.

- | | |
|--|---|
| a. Derive the relation $PV = nRT$ | 3 |
| b. Write the value of universal gas constant? | 1 |
| c. Why is mercury droplet spherical? | 1 |
| d. Through the two ends of a glass tube of length 2 meters, hydrogen chloride and ammonia gases are allowed to enter. At what distance from ammonia, ammonium chloride will be appear? | 3 |
21. Sodium hydroxide is manufactured from brine solution by electrolytic process.
- | | |
|--|---|
| a. What is brine solution? | 1 |
| b. Write the name of gas produced at cathodic and anodic compartment. | 1 |
| c. Name the electrolyte that is used in this process. | 1 |
| d. Write the equation that takes place in each electrode. | 2 |
| e. Draw the flow sheet diagram for this process: | 2 |
| f. Write the Molecular formula of washing soda. <i>(Na_2CO_3)</i> | 1 |
21. An organic compound A is produced by heating ethanol with conc. H_2SO_4 at 170°C . The compound A is treated with hydrogen in presence of platinum catalyst, compound B is formed. The compound B is treated with chlorine in presence of sunlight, compound C is obtained. The compound C is heated with sodium metal in presence of organic ether, the compound D is formed.
- | | |
|--|---|
| a. Write the reaction sequence of the conversion of A to D. | 4 |
| b. Write the IUPAC name of C and D. | 2 |
| c. How can you prove chemically the compound A is unsaturated? | 1 |
| d. Write the name of reaction for the conversion of compound C to D. | 1 |

Best of Luck



SUKUNA SECONDARY SCHOOL

Sundarharaincha-10, Morang
FINAL EXAMINATION-2080

Class: XI

Subject: Mathematics (0081)

Full Mark: 75

Time: 3 Hours

Candidates are required to give their answers in their own words as far as practicable. The figures in the margins indicate full marks.

Group: A

[1 × 11 = 11]

Rewrite the correct options of each question in your answer sheet.

- The statement $P \vee \sim p$ is
a) Contradiction b) tautology c) inverse d) converse
- The graph of the function $y = ax^2 + bx + c$ for $a \neq 0$ is
a) Pair of lines b) Circle c) Parabola d) Ellipse
- The nature of the roots of the equation $x^2 + x + 1 = 0$ is
a) rational b) imaginary c) real d) real and equal
- The value of $\sin\left(\tan^{-1}\frac{5}{12}\right)$ is
a) $\frac{12}{13}$ b) $\frac{5}{13}$ c) $\frac{5}{12}$ d) $\frac{12}{5}$
- The perpendicular distance between two lines $4x - 3y = 12$ and $4x - 3y = 2$ is
a) $\frac{12}{5}$ b) $\frac{2}{5}$ c) 2 d) 10
- The axes of coordinates divides the whole space into
a) 2 parts b) 4 parts c) 6 parts d) 8 parts
- If $\vec{a} = k\vec{b}$ then $\vec{a}$ and $\vec{b}$ are called
a) non-collinear vectors b) collinear vectors
c) non-coplanar d) Coplanar vectors
- If a coin is tossed three times then the probability of getting at least one head is
a) $\frac{1}{2}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$ d) $\frac{7}{8}$
- The one which is not an indeterminate form is
a) $\frac{0}{0}$ b) $\infty + \infty$ c) $\infty - \infty$ d) $\frac{\infty}{\infty}$

10. The point of inflection of the curve of the function $f(x) = x^2 - 5x + 6$ is
 a) $\frac{5}{2}$ b) 0 c) -1 ☒ d) No
11. The number of subintervals that cannot be taken in Simpson's $\frac{1}{3}$ rule is
 a) 3 b) 4 c) 6 d) 8

OR,

The equation of motion with uniformly acceleration is

- a) $v = u + at$ b) $s = ut + \frac{1}{2}at^2$
 c) $v^2 = u^2 + 2as$ ☒ d) All of the above

Group: B

[8 × 5 = 40]

12. a) ☒ If p and q be the statements, then prove that $\sim(p \vee q) \wedge q$ is contradiction. (3)
 b) ☒ Prove that $\log(1 + 2 + 3) = \log 1 + \log 2 + \log 3$ (2)
13. The side of a square is 16cm. A second square is inscribed by joining the mid points of the sides successively. In the second square, we repeat the process, inscribing the third square. If this process is continued indefinitely, what is the sum of the perimeters of all the squares? (5)
14. a) What is the domain of the function $f(x) = \sin^{-1} x$. (1)
 b) Show that $\tan^{-1}\left(\frac{3}{5}\right) + \sin^{-1}\left(\frac{3}{5}\right) = \tan^{-1}\left(\frac{27}{11}\right)$ (2)
 c) ☒ When does a function $f: A \rightarrow B$ becomes an onto and one to one. (2)
15. Show that the three vectors $5\vec{a} + 6\vec{b} + 7\vec{c}$, $7\vec{a} - 8\vec{b} + 9\vec{c}$ and $3\vec{a} + 20\vec{b} + 5\vec{c}$ are coplanar where $\vec{a}, \vec{b}, \vec{c}$ any three vectors. (5)
16. a) What is the condition for the curve of frequency distribution is symmetrical? (1)
 b) ☒ A frequency distribution gives C.V. = 5%, S.D. = 2 and $S_k(p) = 0.5$ then find mean and mode. (2)
 c) ☒ If A and B are two independent events with $P(A) = \frac{2}{3}$ and $P(B) = \frac{3}{5}$ find $P(A \cup B)$. (2)

17. a) Let $f(x) = \begin{cases} x^2 + 5 & \text{for } x < 5 \\ 25 & \text{for } x = 5 \\ 3x + 15 & \text{for } x > 5 \end{cases}$

i. Find $\lim_{x \rightarrow 5} f(x)$ (1)

ii. Find $f(5)$. (1)

iii. is $f(x)$ continuous at $x = 5$. (1)

b) Evaluate $\lim_{x \rightarrow \infty} (\sqrt{x} - \sqrt{x-3})$ (2)

18. Find the area of a circle $x^2 + y^2 = 121$ using integration method. (5)

19. Evaluate using composite trapezoidal rule the integral $\int_0^1 \frac{dx}{1+x}$, $n = 5$.

Also find the error of approximation from its actual value. (4+1)

OR,

Two forces P and Q act at a point. Their resultant R is at right angles to P . Show that $Q^2 - P^2 = R^2$ where the angle between the forces is equal to $\cos^{-1} \left(-\frac{P}{Q} \right)$. (5)

Group: C

[3 × 8 = 24]

20. a) If one root of the equation $x^2 - px + q = 0$ is twice the other show that $2p^2 = 9q$. (2)

c) i) Define complex number. Why the complex numbers are introduced? explain with one example. (2)

ii) Find the square root of $3 - 4i$. (2)

c) Prove that $\begin{vmatrix} 1 & x & x^2 \\ 1 & y & y^2 \\ 1 & z & z^2 \end{vmatrix} = (x - y)(y - z)(z - x)$ (2)

21. a) The length of the perpendicular drawn from the point $(a, 3)$ on the line $3x + 4y + 5 = 0$ is 4, find the value of a . (3)

b) Find the separate equations of the line. $x^2 - 5xy + 4y^2 = 0$. (2)

c) Find the point where the line through the points $(1, 2, 3)$ and $(4, -4, 9)$ meet the yz plane. (3)

22. i) Write $\frac{dy}{dx}$ in terms of $\frac{dy}{dt}$ and $\frac{dt}{dx}$. (1)

ii) Find $\frac{dy}{dx}$ if $y = \frac{t-1}{2t}$ and $t = \sqrt{x+1}$. (2)

iii) Write the necessary condition for the curve $y = f(x)$ to have maxima or minima. (2)

iv) Calculate the maximum and minimum values of $f(x) = 2x^3 - 3x^2 - 36x$. (3)

"The End"

SSS-XI

2080(2023)

Computer science (4271)

Time: 2 Hours

Full Mark: 50

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group 'A' (Multiple Choice Questions)

Attempt all questions

[9×1=9]

1. Tick the best alternatives.

- a. The process of converting plaintext into cipher text is called...
 - i. Decryption
 - ii. Encryption
 - iii. Translation
 - iv. None of the above
- b. To print a float value which format specifier can be used?
 - i. %f
 - ii. %d
 - iii. %c
 - iv. %s
- c. Which is not a search engine?
 - i. Yahoo.com
 - ii. Bing.com
 - iii. Google.com
 - iv. Daraz.com
- d. Assembler is used as a translator for
 - i. Low level language
 - ii. High level language
 - iii. COBOL
 - iv. C
- e. A collection of wires that connects several devices is called....
 - i. Bus
 - ii. Link
 - iii. Cable
 - iv. Port
- f. Which image format is best used for photographs and offers a small file size?
 - i. DOC
 - ii. MP3
 - iii. BMP
 - iv. JPEG
- g. A program in HTML can be rendered and read by
 - i. server
 - ii. Web browser
 - iii. client
 - iv. None of the above

- h. Which one of the following is not an input device?

- i. Speaker
- ii. Mouse
- iii. Digital camera
- iv. Keyboard

- i. Which is the word processing software?

- i. Avast ii. MS word 2007

- ii. Google Chrome iv. Mozilla Firefox

Group 'B'

Give short answer to the following questions.

[5×5=25]

2. Differentiate between primary memory and secondary memory.

[5]

OR

Convert (CAFE)₁₆ to its Octal equivalent.

[5]

3. Write a program in C to generate 0,1,1,2,3,5,8.....10th term.

[5]

4. What is Presentation Software? Write down the advantages of presentation software.

[5]

OR

What is HTML? Explain the types of tags.

5. Who is hacker? Explain different categories of hackers.

[5]

5. Write short note on: (any two)

[2×2.5=5]

- FOR loop
- Multimedia
- Mobile computing

Group 'C'

Give long answer of the following questions.

[2×8=16]

7. Define an Operating system .Explain operating system on the basis of processing. [

[8]

OR

Write a program to display the day using the switch case depending upon the number entered by user.(i.e 1. for Sunday 7. For Saturday.....) [8]

8. Explain AND, OR, NOT and NAND gate with its truth table, logic symbol and Venn-diagram.

[8]

-The End-

SSS-XI

2080 (2023)

Compulsory English (Eng. 0031)

Time: 3 hrs

F.M. - 75

Read the following passage and answer the questions that follow:

The Way Human Body Defends

The defense mechanism of human body is a gift of nature provided to human beings. The power of our body to fight against various disease-producing agents is known as defensive mechanism. (This defensive mechanism depends upon various factors which can be categorized mainly into two types—common factors and special factors.)

Amongst the common factors, the most important is the health of human beings. We all know if we are having a good health, our body automatically remains protected against the diseases. For keeping good health one should have nutritious balanced diet. A balanced diet is that which contains carbohydrates, fat, proteins, vitamins in proportionate amount.

The skin of our body saves us against many micro-organisms producing diseases, provided that it is intact. In case there are cuts or abrasions on it, the micro-organisms penetrate the body through those cuts and abrasions and can cause diseases. Therefore, a cut or an abrasion should never be left open. In case there is no bandage, etc. available, it may be covered by a clean cloth.

Some bacteria are residing on and inside the human body. They are our friends and are useful for us. They do not cause any disease and by their presence they do not allow disease-causing organisms to settle on those places. For example, the micro-organisms, present in human saliva secrete a chemical which does not allow diphtheria causing bacteria to grow inside the oral cavity.

The human body secretes a variety of fluids, which are killers for disease causing micro-organisms. For example, gastric juice (acidic in nature) secreted by our intestinal tract kills all organisms which enter our body through food.

There are a few automatic activities of our body known as "reflex phenomenon" which protect the body against many infections. This reflex phenomenon includes sneezing, coughing and vomiting.

Fever is one of the most important constituents of the defensive mechanism of our body. The organ which regulates the temperature of our body is known as hypothalamus and it is situated in the brain. When micro-organisms after entering the body release toxic products and these reach the brain through blood, the hypothalamus starts increasing the temperature of body the person gets fever. This fever is very useful for the human body because by the increase of temperature the micro-organisms which are the root cause of the problem get killed.

We are living in an environment which is full of bacteria. Many of these bacteria can produce serious diseases, but all of us do not suffer from such diseases. It is due to a special power present in our body to fight these diseases.

A part of this special power of our body is known as innate immunity. This is inherited by us. The other part of this special power is called acquired immunity. This we gain during our lifetime.

In a nutshell, we can say since nature has provided us with defensive mechanism to fight against so many diseases, let us maintain it and rather increase it by the way of immunization.

A. Choosing the most appropriate option:

(5 x 1 = 5)

- a. **One should have nutritious balanced diet because.....**
 - i. it has food items for various tastes
 - ii. it keeps one healthy
 - iii. it is recommended by a dietician
 - iv. it has all essential items
- b. **The defense mechanism of human body is important as.....**
 - i. it protects us from diseases
 - ii. it checks deterioration of body
 - iii. it saves us from depression
 - iv. it builds up the wear and tear
- c. **In order to check the micro-organisms penetration in the human body.....**
 - i. we must cover the whole body
 - ii. we must rub insect repelling oil
 - iii. we must use antiseptic solutions
 - iv. we should keep cuts and abrasions covered
- d. **Gastric juice secreted by our intestinal tract kills all extraneous organisms as.....**
 - i. it flows very fast
 - ii. it is acidic in nature
 - iii. it prevents their multiplication
 - iv. it is a natural stimulant
- e. **We can increase our defensive mechanism by.....**
 - i. developing friendly bacteria
 - ii. checking infection through reflex phenomenon
 - iii. seeking proper immunization
 - iv. suppressing fever in initial stages

B. Write T for true and F for false statements.

(5 x 1 = 5)

- a. The defense mechanism of human body is a gift of nature provided to human beings.
- b. A balanced diet contains all the junk foods.
- c. Sneezing, coughing and vomiting are the examples of reflex phenomenon.
- d. Hypothalamus is situated in the heart.
- e. The environment in which we live is full of bacteria.

50/10/23
amazing
angry
moral
behaviour

C. Answer the following questions:

(5 x 1 = 5)

- a. How can micro-organisms penetration be checked in the human body?
- b. What is the role of gastric juice in human body?
- c. How can we increase our defensive mechanism?
- d. What do you mean by reflex phenomenon?
- e. Give the similar meanings.
 - i) scraping or rubbing of (paragraph 3)
 - ii) poisonous (paragraph 7)

2. Write short answers to the following questions in about 75 words each.

(5 x 2 = 10)

- a. Why did Jonathan think of himself as 'extraordinary lucky'? (Civil Peace)
- b. What is the speaker remembering from his childhood days in the poem? (who are you, little i ?)

Or

What kind of love is expressed in "A Red, Red rose".

- c. Why are people's opinion and prejudices her greatest obstacles? (What is Poverty?)

Or

Who preserve and pass on the oral tradition? (Sharing Tradition)

- d. How is the title "A Sunny Morning" justifiable? (A Sunny Morning)

- e. What does the slogan "Stay Hungry. Stay Foolish" mean to you? (How to Live Before You Die)

3. Write long answer to the following questions in about 150 words each.

(2 x 5 = 10)

- a. Describe the different roles that we play in our lifetime.

(All the World's a Stage)

Or

Sketch the character of Wasserkopf. (Refund)

- b. Write the summary of the story "The Selfish Giant"?

4. Write a review of a book/film you have recently read or watched.

7

5. Write a job application with complete CV for the post of Basic Level English Teacher that has fallen vacant in your school.

8

6. Write an essay on "Status of Women in Nepal" in about 300 words.

10

7. Do as directed in brackets and rewrite the sentences:

(10 x 1 = 10)

- a. Hiswas excellent. (Write the noun form of

'behave')

- b. We enjoyed very much the party. (Rewrite the underlined words in the right place)
- c. The plane landedthe runway. (Use the correct preposition)
- d. It was very warm, so Imy coat. (Write the correct tense form of 'take off')
- e. Grammar rules frustrate me. They are so
(Write the correct adjective form of 'frustrate')
- f. Are the news on at five or six? (Rewrite the sentence correctly)
- g. Excuse me!(you / speak) English? (Put the verb into the correct form)
- h. Are you believing in God? (Correct the underlined words)
- i. He is poor. He wears expensive clothes. (Combine the sentences using 'in spite of')
- j. The person was really helpful. They spoke to him. (Join the sentences with a relative clause)

8. Do as instructed:

(5 x 1 = 5)

- a. calf, goose (Write the plural form)
- b. She likes chocolates. (Change into passive voice)
- c. I put off my meeting for a week. (What does it mean by 'put off' in this sentence?)
 - i. established
 - ii. held
 - iii. postponed
 - iv. changed
- d. A strong feeling of excitement and happiness = e..... (Write one word that begins with 'e')
- e. I have to work at two jobs to make both ends meet in this expensive city. (Choose the correct option)
 - i. earn much money
 - ii. live on money
 - iii. spend much money
 - iv. earn just enough money

Best Wishes

Sincerely

(5x2=10)2. Write short answers 1

सुकुना माध्यमिक विद्यालय

सुन्दरहरैँचा १०, खोसनि, मोरङ

परीक्षा २०८०

कक्षा : ११

विषय कोड : ००११

पूर्णाङ्क : ७५

विषय: अनिवार्य नेपाली

समय : ३ घ.

उत्तीर्णाङ्क : २७

१. रेखाङ्कित वर्णहरूको प्राणत्व र घोषत्व लेख्नुहोस् : ३
मनुष्य जीवनको सार्थकता भन्नु नै चेतना हो । गरिब वा धनी हुनु के हो र किन मानिस गरिब वा धनी हुन्छ ?
२. शुद्ध गरी पुनर्लेखन गर्नुहोस् : ३
हेर्नुस् वद्रीजी हामीले खेतमा राशायनिक मल र विसादिको प्रयोग गर्‍यो ।
वालीको उत्पादन बडाउने काममा साथीहरूले तपाईंसँग सल्लाह मागेका छन् ।
३. अनुच्छेदमा रेखाङ्कन गरिएको शब्दको पदवर्ग पहिचान गरी लेख्नुहोस् : २
गरिबलाई हेला गर्ने मानवताविरोधी मानिससित रिस त उठ्छ नै तर पनि भैँभगडामा नै उत्रिनु चाहिँ बुद्धिमानी कार्य ठहरिँदैन ।
४. दिइएका प्रश्नको उत्तर दिनुहोस् : २+२=४
(क) दिइएको अनुच्छेदबाट दुई दुई ओटा तत्सम र आगन्तुक शब्द पहिचान गरी लेख्नुहोस् ।
आजभोलि आकाशमा पर्वतीय उडानहरू, ह्याण्ड ग्लाइडिङ, पारालाइडिङ आदि विभिन्न पर्यटकीय क्रियाकलापसँगै बन्जी जम्पिङ जस्तो साहसी पर्यटन पनि लोकप्रिय बन्दै छ ।
(ख) दिइएको शब्दहरूलाई शब्दकोशीय क्रममा मिलाई लेख्नुहोस् ।
व्यवहार, अंश, त्रास, ज्ञान
५. कुनै एक प्रश्नको उत्तर लेख्नुहोस् : ३
(क) दिइएको अनुच्छेदबाट तीनओटा पारिभाषिक शब्द पहिचान गरी तिनलाई वाक्यमा प्रयोग गर्नुहोस् ।

हिजोभन्दा आज हरेक सङ्क्रामक रोगको उपचार खाँपद्वारा सम्भव हुँदै गएको छ । देशमा कुपोषणबाट मृत्यु हुने बालबालिकाहरूको तथ्याङ्क सार्वजनिक गरिएको अभिलेखबाट थाहा पाउन सकिन्छ ।

अथवा

(ख) दिइएको अनुच्छेदबाट एउटा अनुकरणात्मक शब्द, एउटा उखान र एउटा टुक्का पहिचान गरी वाक्यमा प्रयोग गर्नुहोस् ।

मुसुमुसु हाँस्दै घरको ढोकामा टुप्नुक्क देखा परेको श्यामलाई देखेपछि, म खुसीले गदगद भएँ । गर्ने भन्ने हनुमान पगरी गुथ्ने ढेडु भनेभैं श्यामले गरेको मेहनत छलछामले आफ्नो बनाउन पल्केका साथीहरू, सम्झदा मेरो कन्सिरी तातेर आउँछ । साउनमा आँखा फुटेको गोरु सधैं हरियो देख्छ भनेभैं छलले बाँच्नेहरू आआफ्नो भविष्यवारे किन चिन्तित नबनेका होलान् ?

६. कुनै दुई प्रश्नको उत्तर दिनुहोस् :

२+२=४

(क) अनुच्छेदबाट दुईओटा उपसर्ग र दुईओटा प्रत्यय व्युत्पन्न शब्द पहिचान गरी तिनको निर्माण प्रक्रिया देखाउनुहोस् ।

प्रमुख राजनीतिक दलहरूले गैरजिम्मेवार बनेर देशलाई अनिर्णयको बन्दी बनाउनुहुँदैन । दलीय कर्तव्य र राष्ट्रिय जिम्मेवारीलाई बुझेर सकेसम्म चाँडै नै विकास दिने कार्यमा केन्द्रित हुनु आवश्यक छ ।

(ख) अनुच्छेदबाट दुईओटा समस्त शब्द पहिचान गरी विग्रह गर्नुहोस् र दुईओटा द्वित्व शब्द पहिचान गरी दोहोरिएको अंश छुट्याउनुहोस् ।

स्वार्थलिप्त मानसिकता भएका र हरबखत सुख प्राप्तका मात्र कुरा गर्ने अनि छिनछिनमा कुरा बदल्ने तथाकथित बुद्धिजीवी भनाउँदा यी दुइजिब्रे ठुल्दाइले चौपायाको बारे सरसल्लाह गरी सानीमाका छरछिमेकीलाई अल्मलाएका छन् ।

(ग) तलको अनुच्छेदबाट चारओटा सन्धियुक्त शब्द पहिचान गरी तिनको सन्धि विच्छेद गर्नुहोस् ।

चन्द्रोदय स्कुलको वार्षिक समारोहमा जगदीश काका आफ्ना स्वर्गीय बुवाको भक्तिको आँकलले उहाँको नाममा पुस्तकालय स्थापना गर्न

तम्तयार हुनु भएछ । यो कुराले हाम्रो आँखाको ढकनी खोलिदिएको छ । हामी सबै हर्षित भयौ र सबैलाई समाजसेवी बन्नुपर्छ, भन्ने सन्देशसमेत प्राप्त भयो ।

७. कुनै एक प्रश्नको उत्तर दिनुहोस् :

४

(क) दिइएको अनुच्छेदका वाक्यलाई पुलिङ्ग भए स्त्रीलिङ्ग र स्त्रीलिङ्ग भए पुलिङ्गमा परिवर्तन गर्नुहोस् ।

गायक गीत गाउनका लागि मञ्चतिर उक्लियो । उसका पछिपछि गायिका पनि मञ्चतिर लम्की । गायकले आफ्नो गीतद्वारा सबैलाई मन्त्रमुग्ध तुल्यायो । गायिका पनि के कम थिई र !

(ख) दिइएको अनुच्छेदलाई एकवचन भए बहुवचन र बहुवचन भए एकवचनमा परिवर्तन गरी पुनर्लेखन गर्नुहोस् ।

मेरा साथीहरू कलेज पढ्न सहर गए । मचाहिँ गाउँको मायाले यहीं पढ्न थालें । उनीहरू सहरमा धुवाँधुलो खाएर बसेका छन् । म गाउँको स्वच्छ हावापानीमा रमाई रहेको छु ।

८. कुनै एक प्रश्नको उत्तर दिनुहोस् :

४

(क) तलका वाक्यबाट दुई दुईओटा उद्देश्य र विधेय तथा दुई दुईओटा उद्देश्य विस्तार र विधेय विस्तार पहिचान गरी लेख्नुहोस् ।

मेरो सानो भाइ ज्ञानी छ । उसले कुनै पनि खराब काम गरेको छैन । हामी सबै उसको सफलतामा खुसी पनि छौं । पढीलेखी उसले भविष्यमा राम्रै गर्ला ।

अथवा

दिइएको अनुच्छेदलाई सङ्गति मिलाई पुनर्लेखन गर्नुहोस्

गौरी साह्रै फुर्तिलो छ । उसले उच्च शिक्षा लिएको छ । उसको दुई जना भाइ छ । उसकी बुवा कृपक हो ।

९. दुवै प्रश्नको उत्तर दिनुहोस् :

४

(क) दिइएको अनुच्छेद पढी सोधिएको प्रश्नको छोटो उत्तर लेख्नुहोस् :

जलका विभिन्न स्वरूप हुन्छन् । पिग्लिने, अग्लिने र उड्न सक्ने क्षमतामा पानीमा हुन्छ । हिउँ पिग्लिएर नदी बग्दा नदीको पानी वाफ बन्छ र

हिमालका थाप्लामा हिउँ जम्छ । ठोस, तरल, ग्याँस मात्र होइन पानीमा आगो ओकल्ने ऊर्जा हुन्छ । विद्युत् पानीबाटै निकालिन्छ । यस्तो महत्वपूर्ण चमत्कारी पानी सदुपयोग गरे जिन्दगी सुखी र दुरुपयोग गरे दुःखी भएर बित्छ । ठोस, तरल, ग्याँस, राप, र तेजसँगको ऊर्जाले विश्वमा चलायती दिइरहेको छ । जलस्रोतमा धनी राष्ट्र भए पनि दिगो पूर्वाधार विकासका योजनाका अभावले गर्दा हामी स्रोत र साधन भए पनि अँध्यारामा बस्न बाध्य छौं । उर्वराभूमि भएर पनि सिँचाइका आधुनिक प्रविधि अपनाउन नसक्दा जग्गा बाँझा र जनता भोकै छन् । युवावर्ग विदेशिन बाध्य छन् । हामी अमृत समान हिमालको कञ्चन पानी बोतलमा बेचेर सारा विश्वका मानिसको तिर्खा मेटाउन सक्छौं । कर्णालीमा जलविहार, कोसी र लामाकोसी सिँचाइको उचित व्यवस्थापन गरेर धर्ती उर्वरा बनाउन सक्छौं ।

प्रश्नहरू :

- (अ) पानीलाई महत्वपूर्ण चमत्कारी किन भनिएको हो ?
- (आ) जलस्रोत र ऊर्जाका क्षेत्रमा दिगो विकास कसरी गर्न सकिन्छ ?
- (इ) धर्तीलाई उर्वरा बनाउने आधारहरू केके हुन् ?
- (ई) राष्ट्र निर्माणमा सिँचाइको कस्तो भूमिका हुन्छ होला ?

ख) तलको गद्यांश पढी सोधिएका प्रश्नको सही उत्तर छनोट गर्नुहोस् :

वर्तमान युग विज्ञान र प्रविधिको युग हो । विज्ञानले विविध क्षेत्रमा गरेको प्रगतिले वर्तमान युग सुविधायुक्त बन्न पुगेको छ । टेलिफोनका आविष्कारले गर्दा संसारका कुना कुना तुरुन्तै सम्पर्क गरी राख्न सकिने कुराकानी गर्न सम्भव भएको छ । रेडियो र टेलिफोनका माध्यमबाट विश्वमा घटेका विभिन्न घटनाहरूका बारेमा घरमै बसी बसी समाचार सुन्न र हेर्न सक्ने सुविधा उपलब्ध भएको छ । यसै गरी रेल, मोटर पानीजहाज, हवाईजहाज जस्ता यातायातका साधनहरूले टाढा टाढाका गन्तव्यलाई पनि सुगम तुल्याइदिएका छन् । विज्ञान तथा प्रविधिको विकास भएको आशातीत प्रगतिले गर्दा घरायसी कामदेखि लिएर उद्योग, वाणिज्य आदि क्षेत्रमा मानवीय जीवनपद्धति सुखी, सम्पन्न र सुविधायुक्त बन्न

पुगेको छ । मानिसले आर्जन गरेको ज्ञान, निरन्तर मिहिनेत र अनुसन्धानको परिणाम र यन्त्रमानव आविष्कार गर्ने महत्वपूर्ण कार्यमा समेत सफलता प्राप्त भएको छ । 'यन्त्रमानव' भनेको मानिसले जस्तै काम सक्ने स्वचालित यन्त्र हो । यसले मानिसलाई विभिन्न क्षेत्रमा सघाउने काम गर्छ ।

प्रश्नहरू :

(क) वर्तमान युग के कुराको युग हो ?

- (अ) टेलिफोनको (आ) मोबाइलको (इ) रेडियोको
(ई) विज्ञान र प्रविधि

ख) मानिसको गन्तव्यलाई यातायातले कस्तो बताएको छ ?

- (अ) थोरै प्रगति (आ) दुर्गम (इ) नजिक (ई) टाढा

ग) वैज्ञानिक क्षेत्रमा मानिसले कस्तो प्रगति गरेको छ ?

- (अ) थोरै प्रगति (आ) आशातीत प्रगति
(इ) अनौठो प्रगति (ई) न्यूनतम प्रगति

घ) यन्त्रमानव भनेको के हो ?

- (अ) स्वचालित यन्त्र (आ) काम गर्ने सहयोगी
(ई) मानव (इ) मानव

१०. अनुच्छेदबाट चारओटा बुँदा टिपी एक तृतीयांशमा सारांश गर्नुहोस् :

२+२=४

। शिक्षामा महिलाहरू पछि पर्नुमा आर्थिक तथा सामाजिक कारणहरू प्रमुख भएता पनि देशको भौगोलिक बनावट तथा विगतमा राजनीतिक कारण पनि रहेको थियो) । (शिक्षामा महिला सहभागिता कम हुनुमा आर्थिक र सामाजिक कारण मुख्य रहेका छन्) । यस्तो अवस्थामा महिला शिक्षाको उपयुक्त विकासका लागि उल्लिखित कारणहरूलाई ध्यानमा राखेर योजना बनाई कार्यक्रमहरू सञ्चालन गर्नुपर्दछ । खासगरी महिला शिक्षाप्रति नकारात्मक धारणा अन्धविश्वास, सामाजिक भेदभाव हटाएर शैक्षिक चेतना वृद्धि गर्ने खालका कार्यक्रमहरू सञ्चालन गरी सबैले पढ्न पाउने छोरीहरूलाई स्कूल पठाउने कार्यमा समाजलाई अभिप्रेरित गरिनु आवश्यक

छ । त्यसै गरी भौगोलिक विकट र दुर्गम क्षेत्रहरूमा विद्यालय तथा अन्य शिक्षण संस्था खोल्ने कामलाई प्राथमिकता दिनु र विपन्न वर्गका लागि आयमूलक कार्यक्रम तथा उपयुक्त रोजगारीको अवसर सिर्जना गरिनु आवश्यक देखिन्छ ।

११. कुनै एक प्रश्नको उत्तर दिनुहोस् :

४

(क) आफ्नो घरमा खानेपानीको नयाँ लाइन जडान गरिदिन अनुरोध गर्दै स्थानीय खानेपानी कार्यालयलाई सम्बोधन गरी एउटा निवेदन लेख्नुहोस् ।

(ख) आफ्नो नजिकको नातागोता र आफन्तको सफलतामा बढाउने बधाई पत्रको नमुना तयार पार्नुहोस् ।

१२. कुनै एक प्रश्नको उत्तर दिनुहोस् :

४

(क) आफू अध्ययनरत विद्यालयले सम्पन्न गरेको खेलकुद सप्ताह विवरण समेटी १५० शब्दमा एउटा प्रतिवेदन लेख्नुहोस् ।

(ख) "पेट्रोलियम पदार्थको मूल्यवृद्धि र यसको असर" शीर्षकमा १५० शब्दमा नघटाई एउटा टिप्पणी लेख्नुहोस् ।

१३. युवाहरूलाई स्वरोजगारप्रति उत्प्रेरित गर्ने के गर्नुपर्ला ? आफ्नो विचार लेख्नुहोस् :

४

१४. कुनै दुई प्रश्नको उत्तर दिनुहोस् :

४+४=८

(क) दिइएको कवितांश पढी सोधिएका प्रश्नको उत्तर दिनुहोस् ।

कुन पहाडले कुन खोलाले तिम्रो गति छेकेथ्यो र

वीर पुर्खा कुन आँधीले तिम्रो यात्रा रोकेथ्यो र

गरुडको भैं वेंग तिम्रो कुन आकाशले बाँध्न सक्यो

पौरखले रच्यो नेपाल पहाड तराई जुट्न सक्यो ।

प्रश्नहरू

(अ) नेपालीहरूको कस्तो पौरखले नेपालको रचना भएको हो ?

(आ) हाम्रा वीरपुर्खाको गौरव गाथालाई कविताका आधारमा वर्णन गर्नुहोस् ।

(ख) दिइएको नाट्यांश पढी सोधिएका प्रश्नको छोटो उत्तर दिनुहोस् ।

ठिक भन्नुभो बाबा । सन्तानको सुख र शिक्षाका लागि भन्दै म रातदिन खटिएँ तर मैले मेरो छोरालाई समय दिइनँ । उसँग बसेर उसको पढाइको बारेमा कुरा गरिनँ । उसका साथी को को छन् भनेर कहिल्यै सोधखोज गरिनँ । ऊ कहाँ गयो, के गर्‍यो, के खायो भनेर ख्याल गरिनँ । म त खालि मेरो व्यवसाय, बैठक आदि भन्दै दौडधुप गरिरहेँ । उसले मागे जति पैसा दिइरहेँ तर ऊ त धेरै पहिलेदेखि दुर्व्यसनको सिकार भइसकेको रहेछ र आज यो दिन भोग्नुपर्‍यो ।

प्रश्नहरू :

(अ) यस नाट्यांशमा वक्ताले आफ्ना के कस्ता कमजोरी रहेको कुरा स्वीकारेका छन् ?

(आ) यस नाट्यांशमा व्यक्त समस्या कसरी समाधान गर्न सकिएला ?

(ग) दिइएको निबन्धांश पढी सोधिएका प्रश्नको उत्तर दिनुहोस् :

विहङ्गम दृष्टिले बिचार गर्दा सम्पूर्ण पृथ्वी एउटा घर हो, गृह हो । यहाँ जल, स्थल, वायु, आकाश र तेज (प्रकाश) यी पाँच तत्व (पञ्च तत्व) का बिच जलचर, स्थलचर, नभचर र सबै चराचर आफ्नो जीवन बिताउँछन् । पृथ्वीलाई छोडेर उपग्रहमा जीवात्माको अस्तित्व भेटिएको छैन । त्यसैले हामी सबै यहीं बाँच्नुपर्छ, यहीं मर्नुपर्छ । यो सिवाय अरु जाने ठाँउ छैन । (पृथ्वीको पारिस्थितिक प्रणालीलाई बिथोलिएका हाम्रा अस्तित्व सङ्कटमा पर्छ । हालका दिनमा जलवायु परिवर्तनका विषयमा विशेष गरेर वायुमण्डल प्रदूषणका कारण पृथ्वीको सतह अप्रत्यासित ढङ्गले तात्ने क्रमलाई लिएर विशेष चिन्ता र चासो हाम्रो सामु तेर्सिएको छ ।

प्रश्नहरू

(अ) पृथ्वी कसरी सबैको साझा ~~घर~~ ^{घर} हुन सक्दछ ?

(आ) पृथ्वीको तात्ने क्रमलाई ~~सेक्न~~ ^{सेक्न} के गर्न सकिन्छ ?

१५. कुनै एक प्रश्नको उत्तर दिनुहोस्

(क) सत्यनिष्ठा र समतामूलक समाजको स्थापनामा योगमायाले दिएको योगदानको चर्चा गर्नुहोस् ।

(ख) "गाँउको माया" कथामा कस्तो समाजको चित्रण गरिएको छ ?
समीक्षात्मक उत्तर लेख्नुहोस् ।

१६. दिइएका मध्ये कुनै एक शीर्षकमा २५० शब्दसम्ममा नघटाई निबन्ध
लेख्नुहोस् :

- (क) मेरो जीवनको उद्देश्य
- (ख) देश विकासमा युवाहरूको भूमिका
- (ग) धर्म र राजनीति

समाप्त

Note Mandir